**Ride for Elderly and Disabled (the RED company)**

**The color red symbolizes problems and emergencies. We are here to solve red with RED.**

**Our final users are the elderly and disabled. Our problem is how to move passengers to the destination quickly and safely.**

**Problem requirements:**

**The wheelchair we are required to build a door large enough to fit the wheelchairs seamlessly. We cannot kill the passenger, which means dropping the mini-Lego figure during transportation and drop off. We must pick her up from a certain location (the blue floor) in the maze and drop her off at the drop off zone (the green floor). We will start on yellow and must stop for 1 second in the red line.**

**Research necessary information:**

1. **We are going to study existing wheelchair transport vehicles.**
2. **We have to know the basics of programming (java).**
3. **We will have to use Studio 2.0 Bricklink for designing a model.**
4. **We need to know the dimension of wheelchair.**
5. **We have to study the dimensions, so it does not get stuck between the maze during turns.**
6. **We have to know the weight of the wheelchair.**
7. **We have to identify pickup strength required to pick up the person in the wheelchair.**